

WHAT IS CLAIMED IS:

1 1. A method for assisting a user in selecting one or more items from an item
2 set that best match a set of target preferences, the method comprising:

3 obtaining information from the user about that user's set of target preferences, using
4 direct questions;

5 generating at least one list of items selected from the item set that will best meet the set
6 of target preferences based on the information provided; and

7 generating a display including the list of items and explanations for at least one item on
8 the list of items explaining how well attributes of the at least one item match the set
9 of target preferences.

1 2. The method of claim 1, wherein the item is a product, service or other
2 selectable element.

1 3. The method of claim 1, wherein the information obtained from questions to
2 the user is supplemented with other information about the user.

1 4. The method of claim 3, wherein the other information includes one or more
2 of information provided by the user during online interactions and information provided by
3 the user during offline interactions.

1 5. The method of claim 4, wherein the information provided by the user is one
2 or more of registration information, information about prior selections, information about
3 prior purchases and information about prior interactions with automated decision advisors.

1 6. The method of claim 1, further comprising a step of providing the user with
2 explanations of recommendations, where each explanation contains at least one pro or at least
3 one con, and the explanation refers to an attribute of the item and identifies how well the
4 attribute meets the user's set of target preferences.

1 7. The method of claim 6, wherein one or more pro or con includes a
2 reference to the set of target preferences.

1 8. The method of 6, further comprising generating a statement relating one or
2 more pro or con to a matching of an attribute and a recommendation for or against an item
3 based on indirect inferences from user inputs.

1 9. The method of claim 8, wherein each explanation includes those pros and
2 cons that have high estimated decision relevance to the user, and excludes at least one
3 mention of a low estimated relevance attribute.

1 10. The method of claim 9, further comprising a step of estimating decision
2 relevance of an attribute to the user as an increasing function of estimated importance of the
3 attribute to the user and an absolute relative preference value, wherein the absolute relative
4 preference value of a given item is a measure of a difference between an attribute value for
5 the given item and an average value of the attribute for items in the list of items other than the
6 given item.

1 11. The method of claim 1, further comprising generating for display to the
2 user a list of common attributes for which all of the items on the list of items have common
3 values.

1 12. The method of claim 11, wherein the list of common attributes includes
2 attributes that have values in a common range.

1 13. The method of claim 11, wherein the list of common attributes includes
2 pros and cons for attributes that have high estimated importance to the user and excludes at
3 least one pro or con for at least one attribute that has a low estimated importance to the user.

1 14. The method of claim 13, wherein one or more pro or con includes a
2 reference to the set of target preferences.

1 15. The method of 11, further comprising generating a statement relating one
2 or more pro or con to a matching of an attribute and a recommendation for or against an item
3 based on indirect inferences from user inputs.

1 16. The method of claim 1, further comprising offering questions to the user
2 in a sequence that is determined dynamically based on answers to previous questions.

1 17. The method of claim 16, wherein sequence of questions, is based on a
2 priority calculated as an increasing function of the uncertainty about the importance of the
3 attributes to which the question pertains and the variation in attribute values among the items.

